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EXAMINER

NGUYEN, PHUOC H

ART UNIT

PAPER NUMBER

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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. <u>09/426,878</u>	Applicant(s) <u>HORIYAMA, JUN</u>						
	Examiner <u>Art Unit 2158</u>	Phuoc Nguyen						
	-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --							
<b>Period for Reply</b> <p>A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.</p> <ul style="list-style-type: none"> <li>- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>								
<b>Status</b> <p>1)<input type="checkbox"/> Responsive to communication(s) filed on _____.</p> <p>2a)<input type="checkbox"/> This action is FINAL.                            2b)<input checked="" type="checkbox"/> This action is non-final.</p> <p>3)<input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</p>								
<b>Disposition of Claims</b> <p>4)<input checked="" type="checkbox"/> Claim(s) <u>1-23</u> is/are pending in the application.</p> <p>4a) Of the above claim(s) _____ is/are withdrawn from consideration.</p> <p>5)<input type="checkbox"/> Claim(s) _____ is/are allowed.</p> <p>6)<input checked="" type="checkbox"/> Claim(s) <u>1-23</u> is/are rejected.</p> <p>7)<input type="checkbox"/> Claim(s) _____ is/are objected to.</p> <p>8)<input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement.</p>								
<b>Application Papers</b> <p>9)<input type="checkbox"/> The specification is objected to by the Examiner.</p> <p>10)<input type="checkbox"/> The drawing(s) filed on _____ is/are: a)<input type="checkbox"/> accepted or b)<input type="checkbox"/> objected to by the Examiner.</p> <p style="margin-left: 20px;">Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).</p> <p>11)<input type="checkbox"/> The proposed drawing correction filed on _____ is: a)<input type="checkbox"/> approved b)<input type="checkbox"/> disapproved by the Examiner.</p> <p style="margin-left: 20px;">If approved, corrected drawings are required in reply to this Office action.</p> <p>12)<input type="checkbox"/> The oath or declaration is objected to by the Examiner.</p>								
<b>Priority under 35 U.S.C. §§ 119 and 120</b> <p>13)<input type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</p> <p>a)<input type="checkbox"/> All    b)<input type="checkbox"/> Some * c)<input type="checkbox"/> None of:</p> <p>1.<input type="checkbox"/> Certified copies of the priority documents have been received.</p> <p>2.<input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____.</p> <p>3.<input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</p> <p>* See the attached detailed Office action for a list of the certified copies not received.</p> <p>14)<input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).</p> <p>a) <input type="checkbox"/> The translation of the foreign language provisional application has been received.</p> <p>15)<input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</p>								
<b>Attachment(s)</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">           1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         </td> <td style="width: 50%; padding: 5px;">           4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____         </td> </tr> <tr> <td style="width: 50%; padding: 5px;">           2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         </td> <td style="width: 50%; padding: 5px;">           5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)         </td> </tr> <tr> <td style="width: 50%; padding: 5px;">           3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____         </td> <td style="width: 50%; padding: 5px;">           6) <input type="checkbox"/> Other: _____         </td> </tr> </table>			1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____	2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)	3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____
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3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____							

## DETAILED ACTION

### *Title*

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

3. Claim 1-7, and 9-23 rejected under 35 U.S.C. 102(e) as being anticipated by Maniwa U.S. Patent 5,933,584.

Regarding to claim 1,6,10,15,17, and 22, Maniwa reference discloses transfer means for, when said font data is registered from said host computer into the memory of said printing apparatus, sending said font data and font registration information regarding said printing apparatus to at least one of the other host computer and the memory of said printing apparatus (col. 14, lines 7-8 and 20-22); referring means for referring to said sent font registration information in the case where said host computer prints by using said printing apparatus (col. 14, lines 9-12); discriminating means for discriminating whether a printing apparatus name and a font name which are required by the host computer to print by using said printing apparatus exist in said referred font registration information or not (col. 14, lines 13-15); and printing means for, when it is determined that they exist, performing the printing process by using the font data registered in the memory of said printing apparatus (col. 14, lines 10-13).

4. Regarding to claim 2,4,11,13,18, and 20, Maniwa reference discloses said transfer means sends said font registration information to said server computer (col 13, lines 18-21), and said referring means refers to said font registration information sent to said server computer (col. 13, lines 21-22).

5. Regarding to claim 3,12, and 19, Maniwa reference discloses further comprising updating means for updating the font registration information sent to said server computer in case of deleting the font data which has already been registered in the memory of said printing apparatus from said host computer (col. 25, 2<sup>nd</sup> paragraph).

6. Regarding to claim 5,14, and 21, Maniwa reference discloses further comprising updating means for updating the font registration information sent to the other host computer including said server computer in case of deleting the font data which has already been registered in the memory of said printing apparatus from said host computer (col. 25, 2<sup>nd</sup> paragraph).

7. Regarding to claim 7,16, and 23, Maniwa reference discloses further comprising updating means for updating the font registration information sent to the memory of said printing apparatus and said other host computer in case of deleting the font data which has already been registered in the memory of said printing apparatus from said host computer.

8. Regarding to claim 9, Maniwa reference discloses wherein said host computer and said printing apparatus are connected through a network (col. 4, lines 61-62).

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claim 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Maniwa in view of Card U.S. Patent 5,887,990.

Maniwa reference discloses the font data and font registration is stored in the memory of the printing apparatus, but fail to teach us that the memory of printing apparatus is an external memory annexed to printing apparatus.

Card reference discloses that the memory of printing apparatus is an external memory annexed to printing apparatus (col. 4, lines 6-12). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the Card's teaching into Maniwa's method to add in an external memory to the printing apparatus, because the printer does not have enough memory to store all the font files. Therefore, adding the external memory will increase the storing capacity for the font files.

### *Conclusion*

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

**Ooishi U.S. Patent 6,243,704** discloses a nonstandard character processing apparatus and system, and computer readable storage medium.

**Hiraike U.S. Patent 5,995,718** discloses a processing apparatus which secures an exclusive memory for storing a registered font and method.

**Hiraike U.S. Patent 6,310,693** discloses a printing control apparatus and method, and printing system for reducing processing overhead.

**Matoba** Pub. No.: US 2002/0048034 A1 discloses a printer apparatus, printer system and control method.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuoc Nguyen whose telephone number is 703-305-5315. The examiner can normally be reached on Mon - Fri ( 7AM - 4PM ).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-9148 for regular communications and 703-746-9148 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)305-2000 of the program information retrieval apparatus in character" in Embodiment 3;

FIG.29 is a block diagram showing the construction of the program information retrieval apparatus in Embodiment 4;

FIG.30 is a flow chart of the link information update process in Embodiment 4;

FIG.31 shows program information;

FIGs.32(a)-(g) show link information;

FIG.33 is a block diagram showing the construction of the program information retrieval apparatus in Embodiment 5;

FIG.34 is a flow chart of the extraction and storage of the finished program information;

FIG.35 is a block diagram showing the construction of the program information retrieval apparatus in Embodiment 6;

FIG.36 shows a retrieval history;

FIG.37 shows program information;

FIG.38 is a block diagram showing the construction of the program information retrieval apparatus in Embodiment 7;

FIGS.39(a)-(b) show program attributes for each broadcasting station;

FIG.40 shows a program list generated in Embodiment 7;

FIG.41 shows a program list generated in Embodiment 8;

FIG.42 shows a program list generated in Embodiment 9;

FIG.43 shows a program list generated in Embodiment 10;

FIG.44 shows a program list generated in Embodiment 11;

FIG.45 shows a program list generated in Embodiment 12;

FIG.46 shows a program list generated in Embodiment 13;

FIG.47 shows a program list generated in Embodiment 14;

FIG.48 shows a program list generated in Embodiment 15;

FIG.49 shows a program list generated in Embodiment 16;

FIG.50 shows a program list generated in Embodiment 17;

FIG.51 shows a program list generated in Embodiment 18;

FIG.52 shows a program list generated in Embodiment 19;

FIG.53 shows a program list generated in Embodiment 20;

FIG.54 shows a program list generated in Embodiment 21;

FIG.55 shows a program list displayed in Embodiment 9;

FIG.56 shows that the user selects program "Piano Lesson" as the link destination;

FIG.57 shows a program list displayed in Embodiment 8;

FIG.58 is a flow chart of the program list display process in Embodiment 9;

FIG.59 is a block diagram showing the construction of the program information retrieval apparatus in Embodiment 10;

FIG.60 shows an example of the input unit, remote controller 6001;

FIG.61 shows the viewing frequency of users A and B;

FIG.62 is a flow chart of the user switch process in Embodiment 10;

FIG.63 shows a program list displayed in Embodiment 10;

FIG.64 is a block diagram showing the construction of the program information retrieval apparatus in Embodiment 11;

FIGs.65(a) and (b) show the input units;

FIG.65(a) shows a remote controller 6501 dedicated to user A;  
 FIG.65(b) shows a remote controller 6502 dedicated to user B;  
 FIG.66 is a flow chart of the user switch process in Embodiment 11;  
 FIG.67 is a block diagram showing the construction of the program information retrieval system in Embodiment 12;  
 FIG.68 is a block diagram showing the construction of the program information retrieval system in Embodiment 13;  
 FIG.69 is a block diagram showing the construction of the program information retrieval apparatus of Embodiment 14.  
 FIG.70 shows a part of the program information acquired by program information acquisition unit 6901;  
 FIG.71 shows a screen generated based on the program information shown in FIG.70;  
 FIGs.72(a) and 72(b) show selection condition input screens;  
 FIG.73 is a flow chart of a process in which the selection candidate program reception unit 6903 and condition reception unit 6905 receives notification of the selection candidate program and selection condition input by the user;  
 FIG.74 shows a part of the program information acquired by program information acquisition unit 6901;  
 FIG.75 is a flow chart of a process in which the program information extraction unit 6907 extracts program information and the condition judgment unit 6908 makes a judgment concerning the selection condition;  
 FIG.76 is a block diagram showing the construction of the program information retrieval apparatus of Embodiment 15;  
 FIG.77(a), FIG.77(b) and FIG.77(c) show a part of the program information acquired by the program information acquisition unit 6901;  
 FIG.78 shows a screen generated based on the program information shown in FIG.77(a);  
 FIGs.79(a) and 79(b) show selection condition input screens;  
 FIG.80 is a flowchart of the processes performed by the reception unit 6911 and video recording unit 6912 in step S7506 shown in FIG.75;  
 FIG.81(a) is a block diagram showing the construction of the program information retrieval apparatus in Embodiment 16;  
 FIG.81(b) is a block diagram showing the construction of the program information organization unit 8109 in Embodiment 16;  
 FIG.82(a) shows program information acquired by program information acquisition unit 8101;  
 FIG.82(b) shows the program information structuralized by the program information structuralization unit 8102;  
 FIG.83 shows a relationship in NVOD between channels and the broadcast times of the same program;  
 FIG.84 shows a priority information input screen displayed by the priority information input unit 8104;  
 FIG.85 shows priority information input through priority information input unit 8104;  
 FIG.86 is a schematic representation of the relating performed by program information relating unit 8106;  
 FIG.87 shows a part of personal program information generated by the personal program information generation unit 8107;  
 FIG.88 shows a part of a personal program list shown on the display unit 8110;  
 FIG.89 is a flow chart of the process for updating the personal program information in Embodiment 16;  
 FIG.90 is a flow chart of generating relationships between programs;  
 FIG.91 is a flow chart of generating personal program information;  
 FIG.92 is a flow chart of generating and displaying a personal program list;  
 FIG.93 is a flow chart of generating and displaying a personal program list;  
 FIG.94 shows a part of a personal program list displayed on display unit 8110 in Embodiment 17;  
 FIG.95 is a flow chart of generating and displaying a personal program list;  
 FIG.96 shows a part of a personal program list displayed on display unit 8110 in Embodiment 18;  
 FIG.97 is a flow chart of generating and displaying a personal program list;  
 FIG.98 is a flow chart of generating and displaying a personal program list;  
 FIG.99 shows a part of a personal program list displayed on display unit 8110 in Embodiment 20;  
 FIG.100 shows an outline of the personal program information which is previously generated in Embodiment 19 or 20;  
 FIG.101 shows a part of a personal program list which is generated beforehand and displayed on display unit 8110 in Embodiment 20;  
 FIG.102 shows a 3.5-inch floppy disk 10201; and  
 FIG.103 shows a disk reading apparatus 10301 and a computer 10302.

50 DESCRIPTION OF THE PREFERRED EMBODIMENTS

FIG.1 shows a schematic representation of a program information retrieval system.  
 The present system is set in a broadcasting station 101 and a user residence 102 and enables the user to receive broadcast data from the station 101 via a communication satellite 103.